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NOTICE OF ALLOWANCE AND FEE(S) DUE

22434

7590

04/30/2009

Weaver Austin Villeneuve & Sampson LLP P.O. BOX 70250 OAKLAND, CA 94612-0250 EXAMINER

FAROUL, FARAH

ART UNIT PAPER NUMBER

2416

DATE MAILED: 04/30/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/632,704	07/31/2003	Douglas McLaggan	CISCP329/240201	3626

TITLE OF INVENTION: DISTRIBUTING AND BALANCING TRAFFIC FLOW IN A VIRTUAL GATEWAY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/30/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

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Weaver Austin Villeneuve & Sampson LLP P.O. BOX 70250 OAKLAND, CA 94612-0250			I hei State addr trans	Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the U States Postal Service with sufficient postage for first class mail in an envaddressed to the Mail Stop ISSUE FEE address above, or being facs transmitted to the USPTO (571) 273-2885, on the date indicated below.		
						(Depositor's name)
			_			(Signature) (Date)
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APPLICATION NO. 10/632,704	97/31/2003		FIRST NAMED INVENTOR Douglas McLaggan	A	TTORNEY DOCKET NO. CISCP329/240201	CONFIRMATION NO. 3626
	I: DISTRIBUTING AND	BALANCING TRAFFI	C FLOW IN A VIRTUAL	GATEWAY		
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/30/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS			
FAROUL	, FARAH	2416	370-468000			
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ND RESIDENCE DATA	' Indication form ed. Use of a Customer A TO BE PRINTED ON '	(1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attoolisted, no name will be THE PATENT (print or types).	ely, e firm (having as a m gent) and the names neys or agents. If no printed. e)	ember a 2 of up to name is 3	
recordation as set fort (A) NAME OF ASSI	th in 37 CFR 3.11. Comp GNEE	oletion of this form is NO	T a substitute for filing an : (B) RESIDENCE: (CITY	and STATE OR CO	UNTRY)	oup entity Government
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NOTE: The Issue Fee an	ns SMALL ENTITY statu	uired) will not be accepte	b. Applicant is no long	, ,		FR 1.27(g)(2). the assignee or other party in
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an application. Confiden submitting the complete this form and/or suggest	tiality is governed by 35 d application form to the ions for reducing this but /irginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th	1.14. This collection is est depending upon the indiverse Chief Information Office	mated to take 12 min idual case. Any com- r. U.S. Patent and Tr	nutes to complete, includi- ments on the amount of ti ademark Office, U.S. Der	d by the USPTO to process) ng gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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10/632,704	07/31/2003	Douglas McLaggan	CISCP329/240201	3626	
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Weaver Austin	Villeneuve & Sampso	FAROUL, FARAH			
P.O. BOX 70250	•		ART UNIT	PAPER NUMBER	
OAKLAND, CA	94612-0250		2416		
			DATE MAILED: 04/30/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 774 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 774 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/632,704	MCLAGGAN ET AL.			
Notice of Allowability	Examiner	Art Unit			
	FARAH FAROUL	2416			
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS . This application is subject t	plication. If not included n will be mailed in due course. THIS			
1. X This communication is responsive to the amendment filed	<u>on March 9, 2009</u> .				
2. The allowed claim(s) is/are <u>1-7, 9-21, 23-27, 29-36, 38-53,</u>	renumbered 1-49, respectively.				
3. ☐ Acknowledgment is made of a claim for foreign priority unestable a) ☐ All _ b) ☐ Some* c) ☐ None of the:					
 Certified copies of the priority documents have 	e been received.				
Certified copies of the priority documents have	e been received in Application No	·			
Copies of the certified copies of the priority do	cuments have been received in this	national stage application from the			
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements			
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give					
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.				
		-948) attached			
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached1) ☐ hereto or 2) ☐ to Paper No./Mail Date					
, — , — .		Office action of			
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date					
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t					
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT					
Attachment(s)	E Notice of Informal F	Detant Application			
1. Notice of References Cited (PTO-892)	5. Notice of Informal F				
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Da				
3. X Information Disclosure Statements (PTO/SB/08),	7. ☐ Examiner's Amend	ment/Comment			
Paper No./Mail Date <u>03/09/2009</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8 M Evaminar'a Statam	ent of Reasons for Allowance			
of Biological Material	9. ☐ Other	ent of Reasons for Allowance			
/Farah Faroul/					
Examiner, Art Unit 2416					
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DETAILED ACTION

1. The following Office Action is based on the amendment filed on March 9, 2009, having claims 1-7, 9-21, 22-27, 29-36, 38-53 (claims 8, 22, 28 and 37 having been cancelled and claims 52-53 having been added).

Response to Arguments

2. Applicant's arguments, see pages 15-20, filed on March 9, 2009, with respect to 1-7, 9-21, 22-27, 29-36, 38-53 have been fully considered and are persuasive. The rejection(s) of 1-7, 9-21, 22-27, 29-36, and 38-53 has been withdrawn.

Allowable Subject Matter

- 3. Claims 1-7, 9-21, 22-27, 29-36, 38-53 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

For claims 1-9, 44-47, 50 and 52, the prior art fails to teach or render obvious the combination of:

measuring the traffic flow for each of the assigned forwarding addresses; and adjusting the traffic flow by changing allocation of the forwarding addresses based upon the measured traffic flow;

wherein the load-sharing redundancy group provides failover services in the event that one of the gateway devices ceases operation;

wherein the first gateway device actively forwards packets addressed to the first plurality of forwarding addresses and the second gateway device actively forwards packets addressed to the second plurality of forwarding addresses

For claims 10-14, 48, 51 and 53, the prior art fails to teach or render obvious a combination of:

measuring the traffic flow to each forwarding address;

adjusting the measured traffic flow by changing allocation of the forwarding addresses based upon the measured traffic flow;

wherein the load-sharing redundancy group provides failover services in the event that one of the gateway devices ceases operation

For claims 15-21 and 23, the prior art fails to teach a combination or render obvious the combination of:

measuring the traffic flow for each of the assigned forwarding addresses; and adjusting the traffic flow by changing allocation of the forwarding addresses based upon the measured traffic flow;

wherein the load-sharing redundancy group provides failover services in the event that one of the gateway devices ceases operation;

wherein the first gateway device actively forwards packets and the second gateway device actively forwards packets simultaneously with the first gateway device.

For claims 24-27 and 29, the prior art fails to teach or render obvious the combination of:

means for measuring the traffic flow for each of the assigned forwarding addresses; and

means for adjusting the traffic flow by changing allocation of the forwarding addresses based upon the measured traffic flow;

wherein the load-sharing redundancy group provides failover services in the event that one of the gateway devices ceases operation,

wherein the first gateway actively forwards packets simultaneously with the second gateway device, and the second gateway device is actively forwards packets simultaneously with the first gateway device

For claims 30-38 and 49, the prior art fails to teach or render obvious the combination of:

measure the traffic flow for each of the assigned forwarding addresses in the primary gateway device and the second gateway device; and

adjust the traffic flow by changing allocation of the forwarding addresses;

wherein the load-sharing redundancy group provides failover services in the event that one of the gateway devices ceases operation;

wherein the first gateway device actively forwards packets simultaneously with the second gateway device, and the second gateway device is actively forwards packets simultaneously with the first gateway device.

For claims 39-43, the prior art fails to teach or render obvious the combination of: measure the traffic flow to each forwarding address; and

adjust the measured traffic flow by changing allocation of the forwarding addresses;

wherein the load-sharing redundancy group provides failover services in the event that one of the gateway devices ceases operation;

wherein both the first gateway device and the second gateway device forward packets at a given point in time

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to FARAH FAROUL whose telephone number is (571)270-1421. The examiner can normally be reached on Monday - Friday 7:30 AM - 5 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi H. Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Chi H Pham/ Supervisory Patent Examiner, Art Unit 2416 4/26/09

/Farah Faroul/ Examiner, Art Unit 2416